

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
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California Energy Commission and California Public Utilities Commission Joint Staff Workshop on Developing the Action Plan for Energy Efficiency Research and Technology¹

The staff of the California Energy Commission's Energy Research and Development, Division (ERDD) and the California Public Utilities Commission's Energy Efficiency Branch will conduct a public workshop to facilitate information exchange and begin developing the action plan for the Research and Technology (R&T) Chapter of *California's Long-Term Energy Efficiency Strategic Plan* (CEESP).

The R&T Action Plan will be designed to help California achieve the goals described in the CEESP. The workshop involves California stakeholders including private entities, national labs, academia, utilities, clean energy and environmental groups, green venture capitalist, government agencies and others.

MONDAY, JULY 11, 2011

Beginning at 9 a.m.

CALIFORNIA ENERGY COMMISSION

1516 9th Street

First Floor, Hearing Room A

Sacramento, California

(Wheelchair Accessible)

Remote Attendance and Availability of Documents

Internet Webcast - Presentations and audio from the meeting will be broadcast via our WebEx web meeting service, except as noted in the next paragraph. For details on how to participate via WebEx, please see the "Remote Attendance" section toward the end of this notice.

At 1:30 pm, the workshop will split into "breakout" sessions for approximately one to two hours. Two or more of these sessions will be held in Hearing Room B and the balance in Hearing Room A. Internet Webcast will not be available during the breakout sessions. Webcast will be available at 3 pm, through the end of the meeting.

Purpose

This workshop will facilitate information exchange and begin developing the action plan for the R&T Chapter of the CEESP². The R&T Action Plan will be designed to help California

¹ CPUC, The California Efficiency Strategic Plan (January 2011 Update)

http://www.cpuc.ca.gov/NR/rdonlyres/A54B59C2-D571-440D-9477-3363726F573A/0/CAEnergyEfficiencyStrategicPlan_Jan2011.pdf

² Ibid.

achieve the following Zero Net Energy and heating, ventilating and air conditioning (HVAC) for hot-dry climate goals:

- Research and Development to achieve incremental improvement in existing demand side management (DSM) technologies and breakthroughs in advancing new and/or emerging integrated DSM technologies
- Research and Development to advance the market adoption and commercialization of integrated DSM technologies through demonstration, deployment and consumer acceptance

The workshop will provide an opportunity for public discussion and input on the current and future opportunities and key actions needed to set the research agenda to achieve these goals in the following research areas:

- Zero Net Energy (Residential & Commercial)
- Hot/dry Climate HVAC
- Plug Loads
- Integrated Building Design including whole building integrated solutions and new building materials
- Building Management Systems, Diagnostics and Controls
- Lighting
- Renewable Energy and Storage

Background

In 2008, the California Public Utilities Commission published the *California's Long Term Energy Efficiency Strategic Plan* (CEESP) and this document was identified in the Energy Commission's 2009 Integrated Energy Policy Report as a strategy for reducing energy demand and meeting the goals of Assembly Bill 32.(Núñez, Chapter 488, Statutes of 2006) The CEESP was updated in January 2011 and provides a framework to make energy efficiency a way of life in California and to eliminate market barriers and effect lasting transformation in the market. In order to achieve California's ambitious energy efficiency and greenhouse gas reduction goals, the plan sets forth a roadmap for energy efficiency in California through 2020. Key sectors addressed in the plan include residential, commercial, industrial, agriculture, HVAC, codes and standards, workforce education and training, marketing, education and outreach, lighting and research and technology. To date, action plans have been developed for the commercial building sector--focusing on zero net energy buildings and heating, ventilating and air conditioning

The CEESP embraces four specific programmatic goals, known as the "Big Bold Energy Efficiency Strategies" (BBEES)³:

³ BBEES are established by the CPUC in Decision 07-10-032 and Decision 07-12-051.

1. All new residential construction in California will be Zero Net Energy by 2020;
2. All new commercial construction in California will be Zero Net Energy by 2030;
3. HVAC will be transformed to ensure that its energy performance is optimal for California climate; and
4. All eligible low-income customers will be given the opportunity to participate in the low energy efficiency program by 2020.

The Energy Commission is the co-lead with the CPUC in preparing the action plan. The two goals for research and technology as stated in Chapter 11 of the CEESP are as follows:

Goal	Goal Results
Refocus utility and Energy Commission energy efficiency research and technology support to create demand pull and set the research agenda for both incremental and game-changing energy efficiency technology innovations.	Ratepayer-funded R&D programs will explicitly support widely applicable whole-building improvement, lighting, and plug load solutions envisioned in this Plan and will be used to leverage other private and public funds for the deployment of new technologies.
Conduct targeted emerging technologies R&D to support the Big, Bold Energy Efficiency Strategies and integrated energy solutions goals.	Profound improvement in equipment efficiency as well as new building materials and designs aimed at achieving more efficiency from new buildings than technically feasible today, and necessary to achieve Zero Net Energy and hot/dry climate HVAC outcomes.

Public Participation

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission activities. If you want information on how to participate in this workshop, please contact the Public Adviser's Office at (916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at PublicAdviser@energy.state.ca.us]. If you have a disability and require assistance to participate, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

Please direct all news media inquiries to the Media and Public Communications Office at (916) 654-4989, or by e-mail at [mediaoffice@energy.state.ca.us]. If you have questions on the technical subject matter of this meeting, please call Beth Chambers at 916-327-1713, or by e-mail at bhchambe@energy.state.ca.us].

For Public Comment, please submit your comments to Beth Chambers at bhchambe@energy.state.ca.us by July 25, 2011.

Remote Attendance

You can participate in this meeting through WebEx, the Energy Commission's online meeting service. Presentations will appear on your computer screen, and you listen to the

audio via your telephone. Please be aware that the meeting's WebEx audio and on-screen activity may be recorded.

Computer Log-on with Telephone Audio:

1. Please go to <https://energy.webex.com> and enter the unique meeting number: 921 463 092.
2. When prompted, enter your name other information as directed and the meeting password: meeting@845.

Teleconference:

After logging in on the computer, an AUDIO CONFERENCE BOX will offer you the choice of phone connections:

1. TO HAVE WEBEX CALL YOU BACK: Type your area code and phone number and click "Call Me".
2. TO CALL INTO THE TELECONFERENCE: Use the drop-down box to select "I will call in" and follow the on-screen directions.
3. INTERNATIONAL CALLERS: Click on the "Global call-in number" link in part (2) above
4. TO LISTEN OVER THE COMPUTER: If you have the needed equipment and your computer is configured, click on "Use Computer Headset" and then "Call Using Computer" to use VoIP (Internet phone)
TELEPHONE ONLY (NO COMPUTER ACCESS): Call 1-866-469-3239 (toll-free in the U.S. and Canada) and when prompted enter the unique meeting number: 921 463 092.
International callers can select their number from <https://energy.webex.com/energy/globalcallin.php> If you have difficulty joining the meeting, please call the WebEx Technical Support number at 1-866-229-3239.

Date: June 24, 2011

Mail Lists:

Research and Development List Serves
Efficiency

**California Energy Commission and California Public Utilities Commission
Joint Staff Workshop on Developing the Action Plan for
Energy Efficiency Research and Technology**

July 11, 2011
DRAFT AGENDA

Time	Topic
9:00 a.m.	Introductions and Overview
9:30 a.m.	Purpose of the Workshop
10:00 a.m.	Panel Discussion to identify challenges, opportunities, success factors and supporting practices in the following areas: <ul style="list-style-type: none"><input type="checkbox"/> Planning, process and funding<input type="checkbox"/> Research and development<input type="checkbox"/> Commercialization
12:30 p.m.	Lunch
1:30 p.m.	Breakout Sessions to be scheduled to discuss the following: <ul style="list-style-type: none"><input type="checkbox"/> Planning, process and funding<input type="checkbox"/> Existing research and development and emerging and new technologies<input type="checkbox"/> Demonstrations<input type="checkbox"/> Large scale deployment and incubators<input type="checkbox"/> Consumer acceptance, information dissemination, knowledge management systems and technical market research
3:00 p.m.	Report Back from Breakout Sessions
4:15 p.m.	Wrap up and next steps